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Applicant : Virginia M. Litwin, et al.  
U.S. Serial No.: 09/891,062 Examiner: J. Parkin  
Filed : June 25, 2001 Art Unit: 1648  
For : COMPOUNDS CAPABLE OF INHIBITING HIV-1  
INFECTION

1185 Avenue of the Americas  
New York, New York 10036  
January 7, 2002

#3  
[Signature]  
2/3/02

Honorable Assistant Commissioner  
for Patents Washington, D.C. 20231

SIR:

INFORMATION DISCLOSURE STATEMENT

In accordance with their duty of disclosure under 37 C.F.R. §1.56, applicants direct the Examiner's attention to the following references which are listed on PTO-1449 form attached hereto as **Exhibit A**. A Copy of below listed reference 4 is attached hereto as **Exhibit 1**.

1. U.S. Patent No. 5,071,964, Dec. 10, 1991, Dustin et al.;
2. U.S. Patent No. 5,091,513, February 25, 1992, Huston et al.;
3. U.S. Patent No. 5,854,400, issued December 29, 1998, Chang, T.W., et al.;
4. International Publication Number WO 97/26009, International Publication Date July 24, 1997, PCT International Application No. PCT/US97/00758, filed January 17, 1997 (**Exhibit 1**);

Applicant : Virginia M. Litwin, et al.  
U.S. Serial No.: 09/891,062  
Filed : June 25, 2001  
Page 2

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6. Alexander, H., et al., (1992), "Altering the antigenicity of proteins" Proc. Natl. Acad. Sci. USA 89: 3352-3356;
7. Ashorn P.A., et al., (1990) "Human immunodeficiency virus envelope glycoprotein/CD4-mediated fusion of nonprimate cells with human cells" J. Virol. 64:2149-2156;
8. Attanasio et al., (1991) "Anti-Idiotypic Antibody Response To Monoclonal Anti-CD4 Preparations In Non-Human Primate Species" J.Immun. 146:507-514;
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10. Busso et al, (1991) HIV-Induced Syncytium Formation Requires The Formation of Conjugates Between Virus-Infected And Uninfected T-Cells In Vitro" AIDS 5:1425-1432;
11. Clapham PR., et al., (1991) "Specific cell surface requirements for the infection of CD4-positive cells by human immunodeficiency virus types 1 and 2 and by simian immunodeficiency virus" Virology 181:703-715;

Applicant : Virginia M. Litwin, et al.  
U.S. Serial No.: 09/891,062  
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Page 3

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14. Dragic T., Picard L., and Alizon M., (1995) "Proteinase-resistant factors in human erythrocyte membranes mediate CD4-dependent fusion with cells expressing human immunodeficiency virus type 1 envelope glycoproteins" J. Virol. 69:1013-1018;
15. Golding H., Dimitrov DS., and Blumenthal R., (1992) "LFA-1 adhesion molecules are not involved in the early stages of HIV-1 env-mediated cell membrane fusion" AIDS Res. Hum. Retroviruses 8:1593-1598;
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17. Hattori et al., (1989) "Involvement of Trypsin-Related Cellular Protease(s) In Human Immunodeficiency Virus Type I Infection" FEBS Letters 248:48-52;
18. Hildreth et al., (1989) "Involvement Of A Leukocyte Adhesion Receptor (LFA-1) In HIV-Induced Syncytium Formation" Science 244:1075-1078;

Applicant : Virginia M. Litwin, et al.  
U.S. Serial No.: 09/891,062  
Filed : June 25, 2001  
Page 4

19. Jacobson, J.M., et al., (1993), "Passive immunotherapy in the treatment of advanced human immunodeficiency virus infection" J. Infect. Dis. 168: 298-305;
20. Karwowska, S., et al., (1991), "Passive immunization for the treatment and prevention of HIV infection" Biotech. Therap. 2(1-2): 31-48;
21. Katinger, H., (1994), "Human monoclonal antibodies for passive immunotherapy of HIV-1" Antibiot. Chemother. 46: 23-37;
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23. Queen et al., (1989) "A Humanized Antibody That Binds to The Interleukin 2 Receptor" Proc Natl Acad. Sci. 86:10029-10033;
24. Sato et al., (1992) "Anti-CD7 Reagents inhibit HIV-1 Induced Syncytium Formation" International Conference on AIDS 81:PA5, POA2017;
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Applicant : Virginia M. Litwin, et al.  
U.S. Serial No.: 09/891,062  
Filed : June 25, 2001  
Page 5

27. Schanberg et al., (1995), "Characterization of Human CD7 Transgenic Mice" J. of Immun. 146:507-514;
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30. Valentin et al., (1990) "The Leukocyte Adhesion Glycoprotein CD18 Participates In HIV Induced Syncytia Formation In Monocytoid And T-Cells" J. Immunology 144:934-937; and
31. Wang et al., (1994) "Deletion of T Lymphocytes In Human CD4 Transgenic Mice Induced By HIV-gp120 and gp120-Specific Antibodies From AIDS Patients" Eur. J. Immunol. 24:1553-1557.

The subject application is a continuation of U.S. Serial No. 08/118,415, filed on July 17, 1998. The above listed references 7, 9, 11-13, 14-16, 22, 25 were submitted to and considered by the United States Patent and Trademark Office in an Information Disclosure Statement filed on October 1, 1999, in connection with U.S. Serial No. 09/118,415. The above listed references 1, 2, 8, 10, 17, 18, 23, 24, 27, 30, 31 were cited in a search report in connection with International Publication Number WO 97/26009, International Publication Date July 24, 1997, PCT International Application No. PCT/US97/00758, filed on January 17, 1997, a foreign counterpart of the subject application. A copy of the

Applicant : Virginia M. Litwin, et al.  
U.S. Serial No.: 09/891,062  
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Page 6

search report is attached hereto as Exhibit B. The above listed references 3, 5, 6, 19-21, 26, 28, 29 were previously cited by the United States Patent and Trademark Office in an Office Action issued on February 11, 2000, in connection with U.S. Serial No. 09/118,415. Accordingly, under 37 C.F.R. §1.98(d) copies of these references are not required to be provided to the United States Patent and Trademark Office, since they were previously cited by, or submitted to, the United States Patent and Trademark Office in an application relied upon for an earlier filing date under 35 U.S.C. §120. A copy of the above-listed reference is attached hereto as Exhibit 1.

If a telephone interview would be of assistance in advancing prosecution of the subject application, applicants' undersigned attorneys invite the Examiner to telephone either of them at the number provided below.

Pursuant to 37 C.F.R. §1.97(b)(3), no fee is deemed necessary in connection with the filing of this Information Disclosure Statement. However, if any fee is required authorization is hereby given to charge the amount of any such fee to Deposit Account No. 03-3125.

Respectfully Submitted



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I hereby certify that this correspondence is being deposited this date with the U.S. Postal Service with sufficient postage as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231.



1-7-02

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